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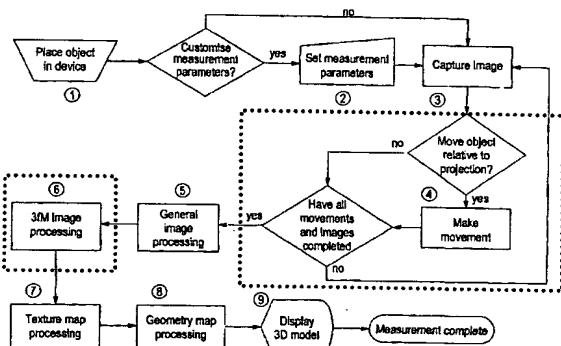
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(54) Title: METHODS AND APPARATUS FOR MAKING IMAGES INCLUDING DEPTH INFORMATION



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- (57) **Abstract:** A method for making an image of an object including depth information comprising the steps of: illuminating the object with a periodic pattern of light from an illuminating arrangement; the illuminating arrangement being such that the pattern is in focus in a focal plane and defocuses progressively away from said focal plane; the object being placed such that different parts of it are at different distances from the focal plane; capturing image data from the thus-illuminated object; analysing the captured image data to extract depth information based on the extent of defocussing of the pattern; and displaying an image of the object without the pattern and with depth information. Apparatus or carrying out the method, comprising an illuminating arrangement adapted to illuminate the object with a periodic pattern of light; the illuminating arrangement being such that the pattern is in focus in a focal plane and defocuses progressively away from said focal plane; the object being locatable with respect to the illuminating arrangement such that different parts of it are at different distances from the focal plane; image data capturing means adapted to capture image data from the thus illuminated object; data analysis means adapted to analyse captured image data to extract depth information based on the extent of defocussing of the pattern; and image display means for displaying an image of the object without the pattern and with depth information.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

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Y	column 1, line 44 - line 47 column 1, last paragraph column 4, line 50 - line 54 column 5, line 34 - line 65 figures 1,2	11, 16, 17, 22

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